

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR EUGENE A. CONTI, JR. SECRETARY

December 9, 2011

U. S. Army Corps of Engineers Wilmington Regulatory Office 69 Darlington Avenue Wilmington, NC 28402-1890

ATTN:

Mr. Ronnie Smith

NCDOT Coordinator

Dear Sir:

Subject:

Application for Section 404 Nationwide Permit 3 for the US 1 (Sandhills Boulevard) and SR 1309 (Morganton Road) Upgrade Interchange, State Project

No. 8.1560801, Federal Aid Project No. STPNHF-1(10), WBS Element No.

34923.1.1, Division 8, T.I.P No. U-3324.

The North Carolina Department of Transportation (NCDOT) proposes to modify the US 1/Morganton Road interchange, the US 1/Luther Way intersection and the intersections of US 1 with Murray Hill Road, Saunders Boulevard, and Henson Street in Moore County.

Under the current design, no formal written concurrence is required by the NCDWQ for a Section 404 Nationwide 3 Permit. However, NCDOT must comply with all Section 401 General Certification No. 3687 conditions. A permit modification may be required if any of these conditions cannot be met.

Please see the enclosed copies of the Pre-Construction Notification (PCN), permit drawings, and design plans for the above-referenced project. The Categorical Exclusion (CE) for this project was completed in March 2009. Additional copies are available upon request.

This project calls for a letting date of September 18, 2012 and a review date of July 31, 2012. However, the let date may advance as additional funds become available.

A copy of this permit application and its distribution list will be posted on the NCDOT website at http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please call Greg Price at (919) 707-6148.

Gregory J. Thorpe, Ph.D., Manager
Project Development and Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List





Office Use Only:	
Corps action ID no	
DWQ project no	
Form Version 1.3 Dec 10 2008	

	Pre-Construction Notification (PCN) Form					
A.	Applicant Information					
1.	Processing		sham kad 4 Marana ana ana ana ana ana ana ana ana an			
1a.	Type(s) of approval sought from Corps:	the	⊠ Section 404 Permit ☐ Secti	on 10 Permit		
1b.	Specify Nationwide Permit (NWP)	) number: 3	or General Permit (GP) nu	mber:		
1c.	Has the NWP or GP number bee	n verified b	by the Corps?	⊠ Yes	☐ No	
1d.	Type(s) of approval sought from	the DWQ (	check all that apply):			
	☐ 401 Water Quality Certificatio	n – Regula	r Non-404 Jurisdiction	al General Permi		
	☐ 401 Water Quality Certificatio	n – Expres	s Riparian Buffer Autho	orization		
1e.	e. Is this notification solely for the record because written approval is not required?  For the record only for DWQ 401 Certification:			For the record	only for Corps Permit:	
1f.	If. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.				⊠ No ⊠ No	
1g.	Is the project located in any of Nobelow.	C's twenty	coastal counties. If yes, answer 1h	Yes	⊠ No	
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	Yes	⊠ No	
2.	Project Information				· ·	
2a.	Name of project:	US 1 (Sai	ndhills Boulevard) and SR 1309 (Mo	rganton Road) U	pgrade Interchange	
2b.	County:	Moore				
2c.	Nearest municipality / town:	Southern	Pines			
2d.	Subdivision name:	not applic	cable	•		
2e.	NCDOT only, T.I.P. or state project no:	U-3324				
3.	Owner Information	Y		******		
За.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation		* .	
	Deed Book and Page No.	not applic	cable			
Зс.	Responsible Party (for LLC if applicable):	not applic	cable			
3d.	Street address:	1598 Mai	I Service Center			
3e.	City, state, zip:	Raleigh, I	NC 27699-1598			
3f.	Telephone no.:	(919) 707	7-6148	4		
3g.	Fax no.:	(919) 212	2-5785			
3h.	Email address:	gwprice@	ncdot.gov			

4.	Applicant Information (if different from owner)				
4a.	Applicant is:	☐ Agent ☐ Oth	er, specify:		
4b.	Name:	not applicable			
4c.	Business name (if applicable):				
4d.	Street address:				
4e.	City, state, zip:				
4f.	Telephone no.:				
4g.	Fax no.:				
4h.	Email address:				
5.	Agent/Consultant Information	(if applicable)			
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g.	Email address:				

В.	B. Project Information and Prior Project History				
1.	Property Identification				
1a.	Property identification no. (tax PIN or parcel ID):	not applicable			
1b.	Site coordinates (in decimal degrees):	Latitude: 35.176 (DD.DDDDD		Longitude: - 79.401295 (-DD.DDDDDD)	
1c.	Property size:	0.89 miles in len	ngth		
2.	Surface Waters				
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	UT to McDeeds	Creek		
2b.	Water Quality Classification of nearest receiving water:	WS-III, HQW			
2c.	River basin:	Cape Fear			
3.	Project Description				
За.	Describe the existing conditions on the site and the general lar application:  High density residential and commercial.	nd use in the vicin	ity of the proje	ect at the time of this	
3h	List the total estimated acreage of all existing wetlands on the	property:	-		
00.	0 acres	property.			
30	List the total estimated linear feet of all existing streams (interm	ittent and perenn	ial) on the pro	nerty:	
l	proximately 40 feet	itterit and pereini	iai) on the pro	perty.	
<u> </u>	Explain the purpose of the proposed project:  To improve safety and relieve traffic congestion in the vicinity of	of the US 1/Morga	enton Road in	terchange.	
3e.	Describe the overall project in detail, including the type of equi		4		
	NCDOT proposes to modify the US1/Morganton Road interchaintersections of US 1 with Murray Hill Road, Saunders Boulevainstalled to prevent erosion downstream from pipe replacemendozers, and cranes will be used.	ard, and Henson S	Street. An en	ergy dissipator will be	
4.	Jurisdictional Determinations				
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past?  Comments:	☐ Yes	⊠ No	☐ Unknown	
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary	Final		
4c.	If yes, who delineated the jurisdictional areas?  Name (if known):	Agency/Consult Other:	tant Company	<b>"</b>	
4d.	. If yes, list the dates of the Corps jurisdictional determinations of	or State determina	ations and atta	ach documentation.	
5.	Project History				
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes	⊠ No	Unknown	
5b.	. If yes, explain in detail according to "help file" instructions.				
6.	Future Project Plans				
6a.	. Is this a phased project?	Yes	⊠ No		
6b.	. If yes, explain.	<del></del>			

C. Proposed Imp	acts Inventory						
1. Impacts Summ	1. Impacts Summary						
•		elow for your project	check all that a	apply):			
☐ Wetlands	•	Streams - tributaries	Griech all that a				
	☐ Open Waters ☐ Pond Construction						
2. Wetland Impac							
_		on the site, then com	plete this quest	tion for each wetland a	area impacteo	<b>i</b> .	
2a.	2b.	2c.	2d.	2e.	-4!	2f.	
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	Type of jurisdi (Corps - 404 DWQ – non-404	, 10	Area of impact (acres)	
Site 1 🔲 P 🔲 T			│	│			
Site 2 P T			Yes	Corps			
Sile 2 Li P Li I			□ No	DWQ			
Site 3 P T	1		│	│			
Site 4 P T			Yes	Corps			
Oile 4 [] I			□ No	DWQ			
Site 5 P T			│	│			
Site 6 P T	1		Yes	Corps			
			│	DWQ		-	
2h. Comments:				2g. Total wetlar	no impacts		
3. Stream Impact	e				>		
· ·	al or intermittent st	ream impacts (includ	ing temporary ir	mpacts) proposed on t	the site, then	complete this	
3a.	3b.	3c.	3d.	3e.	3f.	3g.	
Stream impact number -	Type of impact	Stream name	Perennial (PER) or	Type of jurisdiction	Average stream	Impact length (linear feet)	
Permanent (P) or			intermittent	(Corps - 404, 10	width	:	
Temporary (T)			(INT)?	DWQ – non-404, other)	(feet)	·	
Site 1 🛛 P 🖾 T	Fill	UT to McDeeds	□ PER	⊠ Corps 404		30 perm	
Office   M   M	1 111	Creek	☐ INT	DWQ		10 temp	
Site 2 P T			☐ PER☐ INT	Corps DWQ			
Site 3 P T			□ PER □ INT	☐ Corps ☐ DWQ			
Site 4 P T			☐ PER ☐ INT	☐ Corps			
Site 5 P T			☐ PER ☐ INT	☐ Corps			
Site 6 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
			3h. <b>T</b>	otal stream and trib	utary impact	s 30 perm, 10 temp	
2i Commonto: Fill is	2i. Commente: Fill is for proposed energy dissipator that includes area already having ripron from original pine installation						

<sup>3</sup>i. Comments: Fill is for proposed energy dissipator that includes area already having riprap from original pipe installation. The activity is pipe replacement of a 36 in pipe with 48 in pipe in same location. No pipe extension will be required. The impacted stream is outside of the original study area described in CE. This activity was determined during final design.

4. Open	Water In	npacts								
		ed impacts to lakes, dually list all open w				ries, sounds	s, the Atlantic	Ocean,	or any other op	en water of
4a.		4b.	4c.				4d.		4e.	
Open w impact nu		Name of waterbody		Type	e of impact		   Waterbod	v tvno	Aron of im	pact (acres)
Permaner		(if applicable)		ı ype	or impac	L	vvalerbou	y type	Area or im	pact (acres)
Tempora	ary (T)	, ,								
01 □ F	<u> </u>									
O2 ☐ F	T									
O3 □ F	<b>7</b> □ T									
04 □ F	⊥									
	4f. Total open water impacts									
4g. Comm	4g. Comments:									
		Construction								
<del></del>		struction proposed,		nplete	the chart b	elow.				_
5a.	5b.		5c.	etland	Imnacts (a	ecres)			5e. Upland	
Pond ID		posed use or	Wetland Impacts (acres)			Ottodin impacts (100t)		(acres)		
number	pur	pose of pond	Flood	led	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	nents:									- Anni anni 41
5h. Is a dam high hazard permit required?			ΠY	es	☐ No	If yes, perr	mit ID no	:		
5i. Exped	cted pond	l surface area (acre	s):						,	
5j. Size	of pond w	atershed (acres):			- 1				*	
5k. Method of construction:							1000			

6. Buffer Impacts (for DWQ)								
	If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you <b>MUST</b> fill out Section D of this form.							
6a.			Neuse	☐ Tar-Pamlico	Other:			
Project is in which	protected basin?		Catawba	Randleman				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)			
B1 □ P □ T			☐ Yes ☐ No		,			
B2 □ P □ T			☐ Yes ☐ No					
В3 🗆 Р 🗆 Т			☐ Yes ☐ No					
6h. Total buffer impacts								
6i. Comments:	6i. Comments:							

D.	Impact Justification and Mitigation				
1.	Avoidance and Minimization				
1a.	Specifically describe measures taken to avoid or minimize t	he proposed impacts i	n designing project.		
	No impacts to jurisdictional features will occur in area of roareplacement that occurs offsite.	nd construction. The o	nly impacts will occur from pipe		
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	hrough construction techniques.		
	A proposed energy dissipator will be installed to reduce/pre implemented.	vent erosion downstre	am. Preformed scour holes will also be		
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State		
2a.	a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? ☐ Yes ☐ No Per conversation on November 30, 2011 with Ronnie Smith of USACE, no mitigation will be required.				
2b.	If yes, mitigation is required by (check all that apply):	□ DWQ □ Co	rps		
2c.	2c. If yes, which mitigation option will be used for this project?  ☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation				
3.	Complete if Using a Mitigation Bank				
За.	Name of Mitigation Bank: not applicable		· ·		
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity		
Зс.	Comments:				
4.	Complete if Making a Payment to In-lieu Fee Program				
4a.	Approval letter from in-lieu fee program is attached.	☐ Yes			
4b.	Stream mitigation requested:	0 linear feet			
4c.	If using stream mitigation, stream temperature:	☐ warm ☐ co	ol		
4d.	Buffer mitigation requested (DWQ only):	0 square feet			
4e.	Riparian wetland mitigation requested:	0 acres			
4f.	Non-riparian wetland mitigation requested:	0 acres	,		
4g.	Coastal (tidal) wetland mitigation requested:	0 acres			
4h	4h. Comments:				
5.	Complete if Using a Permittee Responsible Mitigation F	Plan			
	5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.				

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ								
i e	e project result in an impact w mitigation?	ithin a protected riparia	n buffer that requires	☐ Yes				
	then identify the square feet of the square feet of mitigation required.	of impact to each zone	of the riparian buffer th	nat requires mitigation. Calculate the				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)				
Zone 1			3 (2 for Catawba)					
Zone 2			1.5	-				
		6f. Total buffer	mitigation required:					
permit	6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).							
6h. Comm	ents:	Sh. Comments:						

E.	Stormwater Management and Diffuse Flow Plan (required by DWQ)						
1.	Diffuse Flow Plan						
1a.	Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	Yes	⊠ No				
1b.	If yes, then is a diffuse flow plan included? If no, explain why.  Comments:	Yes	□No				
2.	Stormwater Management Plan						
2a.	What is the overall percent imperviousness of this project?	N/A					
2b.	Does this project require a Stormwater Management Plan?	⊠ Yes	□ No				
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:						
2d.	If this project DOES require a Stormwater Management Plan, then provide a brief, nat See attached permit drawings.	rrative descriptior	of the plan:				
2e.	Who will be responsible for the review of the Stormwater Management Plan?		al Government vater Program nit				
3.	Certified Local Government Stormwater Review						
За.	In which local government's jurisdiction is this project?	not applicable					
3b.	. Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Suppl ☐ Other:	y Watershed				
Зс.	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□No				
4.	DWQ Stormwater Program Review						
4a.	. Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal cou HQW ORW Session La					
4b	. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□ No				
5.	5. DWQ 401 Unit Stormwater Review						
5a	. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	□ No N/A				
5b	. Have all of the 401 Unit submittal requirements been met?	☐ Yes	□ No N/A				

F.	F. Supplementary Information				
1.	Environmental Documentation (DWQ Requirement)				
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	⊠ Yes	□ No		
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	⊠ Yes	□ No		
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)  Comments:	⊠ Yes	□ No		
2.	Violations (DWQ Requirement)				
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	Yes	⊠ No		
2b.	Is this an after-the-fact permit application?	☐ Yes	⊠ No		
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s)	•		
3.	Cumulative Impacts (DWQ Requirement)				
За.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☑ No			
3b.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative impost recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in a	accordance with the		
	Due to the minimal transportation impact resulting from the interchange improvement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.				
4.	Sewage Disposal (DWQ Requirement)				
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility.  not applicable	arge) of wastewa	ter generated from		

		The state of the s				
5.	Endangered Species and Designated Critical Habitat (Corps Requirement)					
5a.	Will this project occur in or near an are habitat?	a with federally protected species or	⊠ Yes	□No		
5b.	Have you checked with the USFWS co impacts?	oncerning Endangered Species Act	Yes	⊠ No		
5c.	If yes, indicate the USFWS Field Office	e you have contacted.	☐ Raleigh ☐ Asheville			
5d.	What data sources did you use to dete Habitat?	rmine whether your site would impact Er	ndangered Species or I	Designated Critical		
	NHP and USFWS websites. The Biological Conclusion remains "No Effect" for all listed federal T&E species based on surveys in April 2010 June 2010 (for Red-cockaded woodpecker and Michaux sumac, respectively; no habitat for other species).					
6.	Essential Fish Habitat (Corps Requi	rement)				
6a.	Will this project occur in or near an are	a designated as essential fish habitat?	Yes	⊠ No		
6b.	What data sources did you use to dete	ermine whether your site would impact E	ssential Fish Habitat?			
	NMFS County Index					
7.	Historic or Prehistoric Cultural Reso	ources (Corps Requirement)				
7a.	Will this project occur in or near an are governments have designated as havi status (e.g., National Historic Trust de North Carolina history and archaeolog	ng historic or cultural preservation signation or properties significant in	☐ Yes	⊠ No		
7b.	What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological	resources?		
8. I	Flood Zone Designation (Corps Requ	irement)				
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	Yes	⊠ No		
8b.	8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics coordination with FEMA					
8c. What source(s) did you use to make the floodplain determination? FEMA Maps						
	<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	Applicant/Agent's Sig (Agent's signature is valid only if an authoriza is provided.)		1 2 - 9 - 1 / Date		



## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

January 25, 2010

MEMORANDUM TO:

File

FROM:

Randy C. Henegar, P.E.

Hydraulics Unit

SUBJECT:

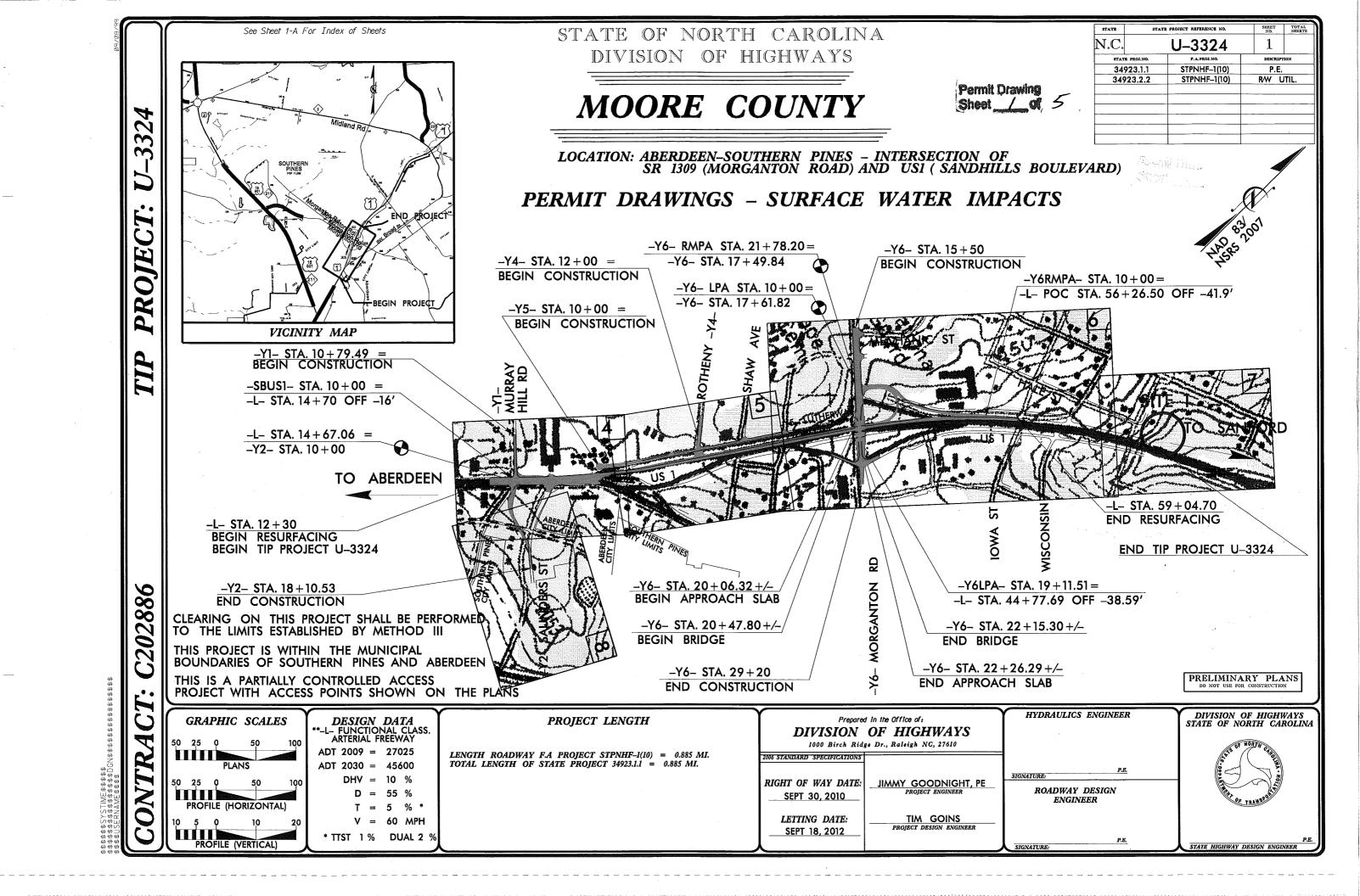
Stormwater Management Plan

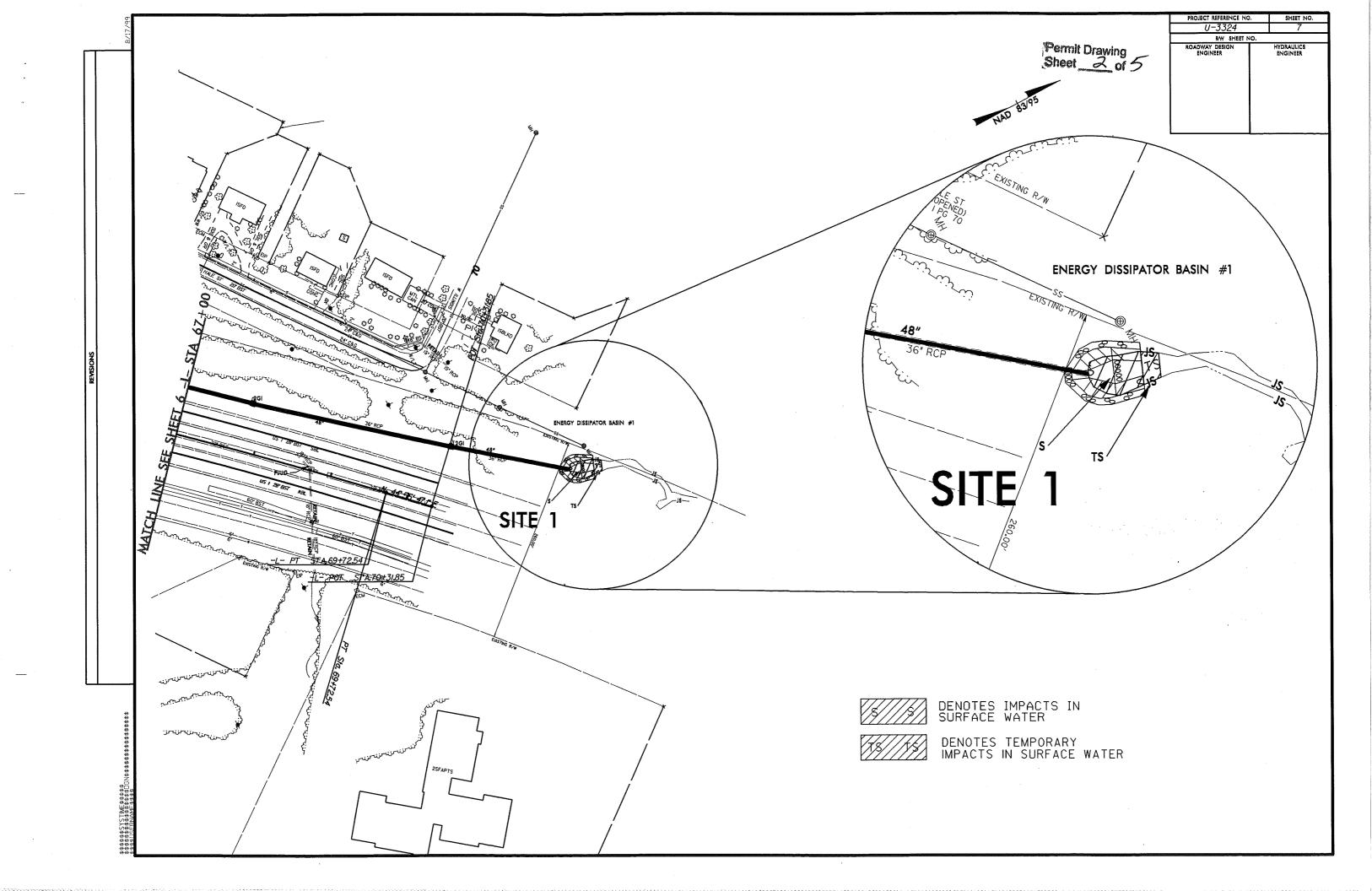
U-3324, Moore County

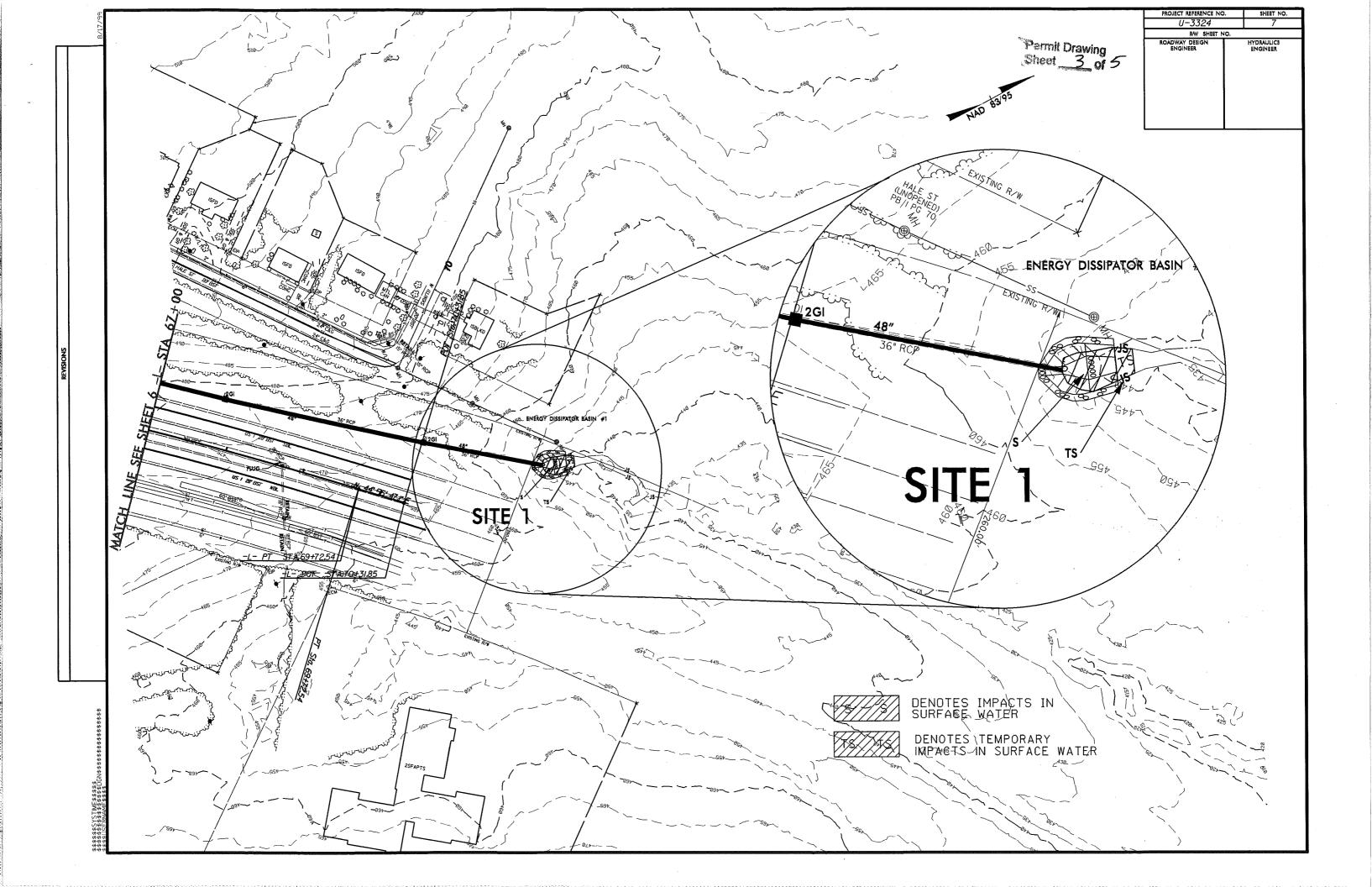
The following items were incorporated into the Hydraulic design of this project for stormwater quality considerations:

- -Preformed Scour Holes were placed at discharge points, where possible.
- -Energy Dissipater was placed at discharge point, where applicable.
- -OTCB was placed at discharge point to diffuse flow.

**SRH** 







## PROPERTY OWNERS

Last Name

Site

STATE OF NORTH CAROLINA

First Name

Address

PO BOX 629

City/Town

State Zip Code

S

27611

RALEIGH

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY WBS - 34923.1.1 (U-3324)

1				WET	WETLAND IMPACTS	WETLAND PERMIT IMPACT SUMMARY	RMIT IMPA	ACT SUMM	ARY SURFACE	IARY SURFACE WATER IMPACTS	PACTS	
	10,100	500,000		Temp.	Excavation	Excavation Mechanized	Hand Clearing	Permanent	Temp.	Existing Channel	Existing Channel	Natural
	Station (From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	Wetlands in Wetlands (ac)	Wetlands (ac)	impacts (ac)	impacts (ac)		Temp.	Design (ff)
	70+31 -L- (LT)	48" RCP/ENERGY DISSIPATOR						0.01	<0.01	30	10	
1												
1												
l												
1												
ŀ												
Ì												
				÷ •,		·						
TOTALS:								0.01	<0.01	30	9	
1												

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MOORE COUNTY WBS - 34923.1.1 (U-3324)

ATN Revised 3/31/05

\* 48" RCP PIPE / ENERGY DISSIPATOR

